PHYSIOLOGY OF THE CIRCULATION.*—In this useful work the author has aimed "at producing a comprehensive view of the circulation as it exists in the lowest vegetable and highest animal forms." He has "endeavored to prove by a variety of arguments that the circulation, whenever and wherever found, differs less in kind than in degree; that fluids may move in living tissues with or without vessels and hearts; that the circulation in an aggregation of vegetable cells is essentially the same as that which occurs in the tissues of our own bodies. As a chain is composed of links, all of which are formed on a common type and fit into each other, so the circulation in the lowest vegetables and animals gradually develops into that of the higher, until we reach man himself; the circulation in the one being relatively as perfect as in the other."

BULLETIN OF THE CORNELL UNIVERSITY.†—The first two numbers of this new periodical, a credit alike to the university and the officers, contains a report of a reconnoissance of the Lower Tapajos river, by Professor C. F. Hartt, and a finely illustrated paper by Mr. O. A. Derby on the Carboniferous Brachiopoda of Itaitúba, Rio Tapajos, Brazil. We hope the patrons of the University will sustain this valuable publication.

MANUAL OF METALLURGY.‡—The author of this excellent manual was a student of Dr. Percy, the distinguished metallurgist, from whose work the present one is in part compiled. It will evidently prove, as the author hopes, a useful auxiliary to the more voluminous works on this subject. It is amply illustrated.

BOTANY.

INSECTIVOROUS PLANTS.§—The leaf of Sarracenia is a trumpet-shaped tube, with an arched lid, covering, more or less completely, the mouth. The inside is furnished with a perfect *chevaux-de-frise* of retrorse bristles, commencing suddenly about an inch from

* The Physiology of the Circulation in Plants, in the Lower Animals, and in Man. By J. Bell Pettigrew. Illustrated by 150 engravings on wood. London. Macmillan & Co. 1874. 8vo, pp. 329.

† Bulletin of the Cornell University. (Science.) Vol. i, Nos. 1, 2. Ithaca, N. Y., 1874. 8vo, pp. 63, with 9 plates.

‡ A Manual of Metallurgy. By W. H. Greenwood. Vol. i. Fuel, Iron, Steel, Tin, Antimony, Arsenic, Bismuth and Platinum. Illustrated by 59 engravings. New York. G. P. Putnam's Sons. Advanced Science Series. No date. [1874] 12mo, pp. 260. $1.50.

§ Abstract of a paper read at the Hartford meeting of the Amer. Assoc. Adv. Science.